

Senior/Expert Program Management

Workshop Course U152 • 4 DAYS



You Will Learn How To:

- Conduct total life cycle management for government projects using an Integrated Master Plan (IMP) and an Integrated Master Schedule (IMS)
- Manage and evaluate decision analysis methods, systems engineering processes and a complex requirements development process
- Direct and estimate Total Cost of Ownership (TCO)
- Establish a risk, threats and opportunities management process



Active Learning Workshop:

- Evaluating an IMP and an IMS
- Estimating total cost of ownership
- Assessing a risk (threat/opportunities) management plan
- Reviewing a decision analysis application strategy
- Deciphering a requirements development and implementation plan
- Evaluating a Test and Evaluation (T&E) strategy plan

About This Course: An Integrated Master Plan is key to successfully managing large-scale government projects. Through a complex case study in this course, you gain the skills to coordinate the development of, oversee, evaluate and critique a systems engineering approach, Integrated Master Plan and Integrated Master Schedule.

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— D. Ridley, General Manager, Technical Services, Samsung ”

Course Content ► Workshop Course U152 • 4 DAYS

Core Project Management Processes

The Integrated Master Plan (IMP) and Integrated Master Schedule (IMS)

- Overseeing the Work Breakdown Structure (WBS)
- Creating cost-estimation metrics
- The role of earned value management
- Cost, schedule and performance trade-offs
- Performing technical reviews

Tools for evaluating the IMP and IMS

- Applying work loading methods
- Benefiting from project management software

Estimating Total Cost of Ownership

Estimating techniques

- Recognizing the “Cone of Uncertainty”
- Making decisions using the Life Cycle Cost Estimate

Cost-benefit trade-offs

- The Government Accounting Office (GAO) 12-step best practice model
- Documenting the relationship between interrelated budgets and cost terms

Managing Risks and Opportunities

Identifying risks

- Recognizing potential risks and threats
- Evaluating responses

Analyzing risks and opportunities

- Strategies for mitigating risk
- Maximizing opportunities

Monitoring and Controlling Risks

Integrating risks into the management plan

- Assessing risk in the real world
- Employing the risk management process

Qualitative and quantitative risk assessment

- Ranking the probability and impact of risk
- Questioning acceptable and unacceptable risk

Working with risk management software

- Demystifying simulation tools
- Generating risk analysis results

Leading the Development of a Program’s Systems Engineering

Reviewing systems engineering approaches

- Implementing systems engineering methodology
- Evaluating processes and approaches
- Establishing configuration management
- Managing technical data and interface issues

Developing requirements

- Transferring a functional diagram into a physical architecture
- Analyzing trade studies
- Balancing independent variable costs
- Building traceability matrices

Reviewing Requirements

Requirements analysis

- Clarifying requirements by focus
- Calculating requirements by type
- Prioritizing requirements

Defining traceability and design

- Writing the traceability matrix
- Documenting change requests
- Selecting a design

Testing and Evaluation Processes

Managing a test and evaluation program

- Charting the potential cost of inadequate testing
- Incorporating verification and validation
- Selecting the integrated product team

Critiquing a realistic or operational test

- Categorizing the test/verification tools
- Testing documents vs. testing process

Applying Acquisition Principles to Contracting

- Reviewing contract types to determine the risks/rewards
- Aligning negotiation stages for procurement
- Handling contract management issues
- Recognizing staffing issues on sizable contract awards
- Evaluating government-furnished equipment



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